

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
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Application Serial Number: 10/759, 125  
Source: TFW16  
Date Processed by STIC: 11/29/2005

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IFW16

## RAW SEQUENCE LISTING

DATE: 11/29/2005

PATENT APPLICATION: US/10/759,125

TIME: 10:08:48

Input Set : A:\00330110.app

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3 <110> APPLICANT: ANTONSSON, PER  
 4 KRISTENSSON, KARIN  
 5 WALLEN-OHMAN, MARIE  
 6 DILLNER, JOAKIM  
 7 LANDO, PETER  
 9 <120> TITLE OF INVENTION: VIRUS-LIKE PARTICLES DEVOID OF HPV 16 TYPE-SPECIFIC

10 ANTIBODY EPITOPES AS CARRIERS OF PEPTIDES FOR  
 11 INTRODUCTION INTO CELLS  
 13 <130> FILE REFERENCE: 003301-106  
 15 <140> CURRENT APPLICATION NUMBER: 10/759,125  
 16 <141> CURRENT FILING DATE: 2004-01-20  
 18 <150> PRIOR APPLICATION NUMBER: 10/048,016  
 19 <151> PRIOR FILING DATE: 2002-01-28  
 21 <150> PRIOR APPLICATION NUMBER: PCT/SE00/01808  
 22 <151> PRIOR FILING DATE: 2000-09-19  
 24 <150> PRIOR APPLICATION NUMBER: SE 9903534-7  
 25 <151> PRIOR FILING DATE: 1999-09-30  
 27 <160> NUMBER OF SEQ ID NOS: 1  
 29 <170> SOFTWARE: PatentIn Ver. 3.3  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 485  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Human papillomavirus  
 36 <400> SEQUENCE: 1

37	Met	Ser	Leu	Trp	Leu	Pro	Ser	Glu	Ala	Thr	Val	Tyr	Leu	Pro	Pro	Val
38	1				5					10					15	
40	Pro	Val	Ser	Lys	Val	Val	Ser	Thr	Asp	Glu	Tyr	Val	Ala	Arg	Thr	Asn
41				20					25					30		
43	Ile	Tyr	Tyr	His	Ala	Gly	Thr	Ser	Arg	Leu	Leu	Ala	Val	Gly	His	Pro
44				35				40					45			
46	Tyr	Phe	Pro	Ile	Lys	Lys	Pro	Asn	Asn	Asn	Lys	Ile	Leu	Val	Pro	Lys
47		50					55					60				
49	Val	Ser	Gly	Leu	Gln	Tyr	Arg	Val	Phe	Arg	Ile	His	Leu	Pro	Asp	Pro
50	65					70					75				80	
52	Asn	Lys	Phe	Gly	Phe	Pro	Asp	Thr	Ser	Phe	Tyr	Asn	Pro	Asp	Thr	Gln
53				85						90				95		
55	Arg	Leu	Val	Trp	Ala	Cys	Val	Gly	Val	Glu	Val	Gly	Arg	Gly	Gln	Pro
56				100					105					110		
58	Leu	Gly	Val	Gly	Ile	Ser	Gly	His	Pro	Leu	Leu	Asn	Lys	Leu	Asp	Asp
59			115					120					125			
61	Thr	Glu	Asn	Ala	Ser	Ala	Tyr	Ala	Ala	Asn	Ala	Gly	Val	Asp	Asn	Arg
62			130					135					140			
64	Glu	Cys	Ile	Ser	Met	Asp	Tyr	Lys	Gln	Thr	Gln	Leu	Cys	Leu	Ile	Gly

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65 145          150          155          160
67 Cys Lys Pro Pro Ile Gly Glu His Trp Gly Lys Gly Ser Pro Cys Thr
68          165          170          175
70 Asn Val Ala Val Asn Pro Gly Asp Cys Pro Pro Leu Glu Leu Ile Asn
71          180          185          190
73 Thr Val Ile Gln Asp Gly Asp Met Val Asp Thr Gly Phe Gly Ala Met
74          195          200          205
76 Asp Phe Thr Thr Leu Gln Ala Asn Lys Ser Glu Val Pro Leu Asp Ile
77          210          215          220
79 Cys Thr Ser Ile Cys Lys Tyr Pro Asp Tyr Ile Lys Met Val Ser Glu
80 225          230          235          240
82 Pro Tyr Gly Asp Ser Leu Phe Phe Tyr Leu Arg Arg Glu Gln Met Phe
83          245          250          255
85 Val Arg His Leu Phe Asn Arg Ala Gly Ala Val Gly Glu Asn Val Pro
86          260          265          270
88 Asp Asp Leu Tyr Ile Lys Gly Ser Gly Ser Thr Ala Asn Leu Ala Ser
89          275          280          285
91 Ser Asn Tyr Phe Pro Thr Pro Ser Gly Ser Met Val Thr Ser Asp Ala
92          290          295          300
94 Gln Ile Phe Asn Lys Pro Tyr Trp Leu Gln Arg Ala Gln Gly His Asn
95 305          310          315          320
97 Asn Gly Ile Cys Trp Gly Asn Gln Leu Phe Val Thr Val Val Asp Thr
98          325          330          335
100 Thr Arg Ser Thr Asn Met Ser Leu Cys Ala Ala Ile Ser Thr Ser Glu
101          340          345          350
103 Thr Thr Tyr Lys Asn Thr Asn Phe Lys Glu Tyr Leu Arg His Gly Glu
104          355          360          365
106 Glu Tyr Asp Leu Gln Phe Ile Phe Gln Leu Cys Lys Ile Thr Leu Thr
107          370          375          380
109 Ala Asp Val Met Thr Tyr Ile His Ser Met Asn Ser Thr Ile Leu Glu
110 385          390          395          400
112 Asp Trp Asn Phe Gly Leu Gln Pro Pro Pro Gly Gly Thr Leu Glu Asp
113          405          410          415
115 Thr Tyr Arg Phe Val Thr Ser Gln Ala Ile Ala Cys Gln Lys His Thr
116          420          425          430
118 Pro Pro Ala Pro Lys Glu Asp Pro Leu Lys Lys Tyr Thr Phe Trp Glu
119          435          440          445
121 Val Asn Leu Lys Glu Lys Phe Ser Ala Asp Leu Asp Gln Phe Pro Leu
122          450          455          460
124 Gly Arg Lys Phe Leu Leu Gln Ala Gly Leu Lys Ala Lys Pro Lys Phe
125 465          470          475          480
127 Thr Leu Gly Lys Arg
128          485

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VERIFICATION SUMMARY

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